

## **AMENDMENTS TO THE CLAIMS**

Please cancel Claims 11-13.

### **LISTING OF CLAIMS**

1. (previously presented) An antenna apparatus mounted in a through hole defined by a vehicle body made of metal, the through hole defining an imaginary planar body having a thickness equal to a thickness of the vehicle body disposed in the through hole and continuous with the vehicle body, the antenna apparatus comprising:

a planar antenna having a radiating element and a ground plate, wherein the radiating element is spaced in one direction from one surface of the vehicle body, and

the ground plate is spaced in an opposite direction from an opposite surface of the vehicle body such that the imaginary body is interposed between the radiating element and the ground plate.

2. (previously presented) The antenna apparatus according to claim 1, wherein:

the vehicle body defines a concavity,

the through hole is formed in the bottom of the concavity, and

the radiating element is positioned in the concavity.

3. (original) The antenna apparatus according to claim 1, further comprising:  
a metal plate positioned between the radiating element and the ground plate.

4. (previously presented) The antenna apparatus according to claim 3, wherein the vehicle body, the metal plate and the ground plate are electrically connected to each other to be at the same electric potential.

5. (previously presented) The antenna apparatus according to claim 4, wherein the vehicle body and the metal plate are connected by an electrical connection element.

6. (original) The antenna apparatus according to claim 3, wherein the radiating element, the ground plate and the metal plate are molded by a resin.

7. (previously presented) A method for mounting a planar antenna on a vehicle, the planar antenna having a radiating element and a ground plate, the method comprising the steps of:

boring a hole through a body of the vehicle, the hole defining an imaginary body having a thickness equal to a thickness of the body disposed in the hole and continuous with the body of the vehicle; and

locating the planar antenna in the through hole so that the imaginary body is positioned between the radiating element and the ground plate.

8. (previously presented) An antenna apparatus mounted in a through hole defined by a metal attachment plate, the through hole defining an imaginary body

having a thickness equal to a thickness of the metal attachment plate disposed in the through hole and continuous with the metal attachment plate, the antenna apparatus comprising:

a planar antenna having a radiating element and a ground plate, wherein the radiating element is spaced in one direction from one surface of the metal attachment plate;

the ground plate is spaced in an opposite direction from an opposite surface of the metal attachment plate such that the imaginary body is interposed between the radiating element and the ground plate; and

the metal attachment plate is integral with a vehicle body.

9. (cancelled)

10. (previously presented) An antenna apparatus mounted on a vehicle, the antenna apparatus comprising:

a planar antenna having a radiating element and a ground plate; and

a metal vehicular body, the vehicular body defining a through hole which has an internal edge and an imaginary body having a thickness equal to a thickness of the metal vehicle body that is disposed within the through hole and is continuous with the vehicular body,

wherein the imaginary body is located between the radiating element and the ground plate.

11.-13. (cancelled)